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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/815,423	IMAMURA ET AL.
	Examiner Thu-Nguyet Le	Art Unit 2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 November 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-20 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 01 April 2004 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No. _____.
 - Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.
2. Applicant's submission filed on 20 November 2007 has been entered. Claims 1, 5, 8, 10 have been amended. Claims 1-20 are pending in this Office Action.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 1-20 are rejected under 35 U.S.C. 102(a) as being anticipated by Peng et al. (XPath Queries on Streaming Data, International Conference on Management of Data, Proceedings of the 2003 ACM SIGMOD international conference on Management of data, published on June 9-12, 2003).

With respect to claim 1, Peng discloses an extensible-markup-language Path Language (XPath) evaluating method comprising evaluating the XPath

relevant to an extensible-markup-language (XML) document by use of a computer, said step of evaluating being carried out individually concerning inputted XML events, while subjecting the XML document to streaming processing, step of evaluating (page 431 2nd paragraph of [1.]; page 432 fig.1 example 1 and last paragraph), XPath method comprising:

a first step of serially inputting XML event strings constituting an XML document to be processed (page 433, 1st and 2nd paragraph of [2.1], 1st paragraph of [3.1], "accepts XML streams" which is "sequence of SAX events");

a second step of serially evaluating the XPath respectively relevant to the inputted XML events while subjecting the XML document to streaming processing (page 432 fig.1 and example1, page 433 [2.2] and [3.]) and retaining information concerning a result of partial evaluation of the XPath in given storing means when the XPath is partially established with respect to a given XML event (last paragraph of page 432);

a third step of repeating the partial evaluation of the XPath along with the input of the XML event strings while considering the result of the partial evaluation retained in the storing means and evaluating that the XPath is established with respect to the XML document when the last part of the XPath is established (example 1 and last paragraph of page 432); and

judging establishment of the entire XPath while accumulating results of said partial evaluation enabling evaluation of the XPath by use of said streaming processing (page 432 fig.1 and example 1).

Claim 2 is rejected for the reasons set forth hereinabove for claim 1 and furthermore Peng teaches the XPath evaluating method wherein the second step includes the steps of:

generating an automaton for expressing the XPath to be evaluated (page 432, 6th paragraph of column 1, "generate the hierarchical pushdown automaton corresponding to an XPath query"); and

evaluating the XPath partially by allowing transition of a state of the automaton based on inputted respective XML events and retaining a result of the partial evaluation as the state of the automaton (page 432 fig.1 and example 1, page 433 1st paragraph of [3.]).

Claim 3 is rejected for the reasons set forth hereinabove for claim 1 and furthermore Peng discloses the XPath evaluating method wherein the second step includes the steps of:

generating a first stack which expresses the XPath to be evaluated with a string of stack elements (page 433, 1st paragraph of [3.], "a set of stack symbols"); and

generating a second stack for analyzing a nested structure of the XML document ("a set of input symbols") to be processed based on respective inputted XML events and then evaluating the XPath partially by comparing the first stack with the second stack (page 433, 1st paragraph of [3.], lines 5-10).

Claim 4 is rejected for the reasons set forth hereinabove for claim 1 and furthermore Peng teaches the XPath evaluating method wherein the second step includes the steps of:

serially constructing a document tree indicating a document structure of the XML document to be processed based on input of respective XML events (page 436, 1st paragraph of [4.], "hierarchical pushdown transducer (HPDT), in form of a binary tree"; figure11, and 1st paragraph of [4.2], build an HPDT from an XPath query); and

evaluating the XPath along with construction of the document tree by use of the document tree including a part which has been constructed (figures 5-11, and example 5, page 436, 1st of [4.2]).

With respect to claim 5, Peng discloses an XPath evaluating apparatus comprising:

an evaluation executing unit being embodied in a tangible computer readable medium, and employed for inputting XML event strings constituting an XML document and serially evaluating the XPath with respect to each of XML events while subjecting the XML document to streaming processing, said serially evaluating being carried out individually concerning inputted XML events, while subjecting the XML document to streaming processing and while retaining information concerning a result of partial evaluation of the XPath when the XPath is partially established with respect to a given XML event, and evaluating that the XPath is established with respect to the XML document when the last step of the XPath is established (page 433, 1st of [3], "Basic Pushdown Transducer", page 432 example 1); and

an XML event transferring unit being embodied in a tangible computer readable medium, and employed for inputting the XML event strings constituting

the XML document to be processed and serially transferring the XML event strings to the evaluation executing unit (page 433, [2.1], "SAX parser"); and a judging unit judging establishment of the entire XPath while accumulating results of said partial evaluation enabling evaluation of the XPath by use of said streaming processing (figures 5-11, and example 5, page 436, 1st of [4.2]).

Claim 6 is rejected for the reasons set forth hereinabove for claim 5 and furthermore Peng teaches the XPath evaluating apparatus, further comprising:

an automaton generating unit being embodied in a tangible computer readable medium, and employed for generating an automaton which expresses the XPath to be evaluated (page 433, 1st of [3.], "pushdown transducer"),

wherein the evaluation executing unit performs partial evaluation of the XPath by allowing a state of the automaton generated by the automaton generating unit to perform transition based on the XML events transferred from the XML event transferring unit, and retains a result of the partial evaluation as the state of the automaton (page 433, 1st paragraph of [3.]).

Claim 7 is rejected for the reasons set forth hereinabove for claim 5 and furthermore Peng teaches the XPath evaluating apparatus, further comprising:

a stack generating unit being embodied in a tangible computer readable medium, and employed for generating a first stack which expresses the XPath to be evaluated with a string of stack elements (page 433, 1st paragraph of [3.], "a set of stack symbols"),

wherein the evaluation executing unit performs partial evaluation of the XPath by generating a second stack for analyzing a nested structure of the XML document subject to processing based on the XML events transferred from the XML event transferring unit and then comparing the first stack generated by the stack generating unit with the second stack (page 433, 1st paragraph of [3.], [3.1]).

With respect to claim 8, Peng teaches an XPath evaluating apparatus comprising:

a document tree constructing unit being embodied in a tangible computer readable medium, and employed for inputting XML event strings which constitute an XML document and serially constructing a document tree indicating a document structure of the XML document based on inputted XML events along with the input of the respective XML events while subjecting the XML document to streaming processing (page 434, [3.2], “building the BPDT” with figure 5-9);

an XML event transferring unit being embodied in a tangible computer readable medium, and employed for inputting the XML event strings which constitute the XML document to be processed and serially transferring the XML event strings to the document tree constructing unit (page 433, [2.1], “SAX parser”); and

an evaluation executing unit being embodied in a tangible computer readable medium, and employed for evaluating the XPath along with construction of the document tree by the document tree constructing unit being carried out individually concerning inputted XML events, while subjecting the XML document

to said streaming processing, using the document tree with a part which has been constructed (page 436, 1st paragraph of [4.], "hierarchical pushdown transducer (HPDT), in form of a binary tree"; figure11, and 1st paragraph of [4.2], build an HPDT from an XPath query, page 434 [3.2]); and

a judging unit judging establishment of the entire XPath while accumulating results of said partial evaluation enabling evaluation of the XPath by use of said streaming processing (figures 5-11, and example 5, page 436, 1st of [4.2])

Claim 9 is rejected for the reasons set forth hereinabove for claim 8 and furthermore Peng teaches the XPath evaluating apparatus, wherein the evaluation executing unit retains information concerning a result of partial evaluation of the XPath when the XPath is partially established upon the evaluation of the XPath using the document tree (page 434, [3.3], "Buffer operation in BPDT").

With respect to claim 10, Peng teaches an information processing apparatus comprising:

an XML parser for analyzing an XML document to be processed and thereby generating XML event strings (page 433, [2.1]);

an XPath evaluating unit being embodied in a tangible computer readable medium, and employed for serially inputting the XML event strings generated by the XML parser and evaluating the XPath with respect to each of inputted XML events by streaming processing, said step of evaluating being carried out

individually concerning inputted XML events, while subjecting the XML document to streaming processing (page 433, 1st of [3], "PDA", page 432 example 1); and

an application executing unit being embodied in a tangible computer readable medium, and employed for inputting the XML events generated by the XML parser and performing processing with respect to the XML document configured by the XML events in response to an evaluation result of the XPath by the XPath evaluating unit (page 434, [3.2], "building the BPDT"),

wherein the XPath evaluating unit serially evaluates the XPath with respect to each of the XML events, retains information concerning a result of partial evaluation of the XPath when the XPath is partially established with respect to a given XML event, and judges that the XPath is established with respect to the XML document when the last step of the XPath is established (page 433, 1st of [3], "Basic Pushdown Transducer"); and

a judging unit judging establishment of the entire XPath while accumulating results of said partial evaluation enabling evaluation of the XPath by use of said streaming processing (figures 5-11, and example 5, page 436, 1st of [4.2]).

Claim 11 is rejected for the reasons set forth hereinabove for claim 10 and furthermore Peng teaches the information processing apparatus, wherein the XPath evaluating unit generates an automaton for expressing the XPath to be evaluated, performs partial evaluation of the XPath by allowing transition of a state of the automaton based on the XML events generated by the XML parser, and retains a result of the partial evaluation as the state of the automaton

(example 1 and last paragraph of page 432, when author element in input stream is encountered, XPath is evaluated, and it satisfied the path /pub/book/author. However, book element, author elements are buffered to wait for later input stream events process).

Claim 12 is rejected for the reasons set forth hereinabove for claim 10 and furthermore Peng teaches the information processing apparatus, wherein the XPath evaluating unit generates a first stack which expresses the XPath to be evaluated with a string of stack elements, generates a second stack for analyzing a nested structure of the XML document to be processed based on the XML events generated by the XML parser, and performs partial evaluation of the XPath by then comparing the first stack with the second stack (page 433, 1st paragraph of [3.], lines 5-10).

Claim 13 is rejected for the reasons set forth hereinabove for claim 10 and furthermore Peng teaches the information processing apparatus, wherein the XPath evaluating unit serially constructs a document tree indicating a document structure of the XML document to be processed based on inputted XML events along with the input of the respective XML events generated by the XML parser, and evaluates the XPath by use of the document tree with a part which has been constructed (page 436, 1st paragraph of [4.], "hierarchical pushdown transducer (HPDT), in form of a binary tree"; figure11, and 1st paragraph of [4.2], build an HPDT from an XPath query).

Claim 14 is rejected on grounds corresponding to the reasons given above for claim 1. The claim 1 claims limitations of the XPath evaluating method

while the claim 14 claims limitations of a program causing the computer to execute the procedure for carrying out the steps of claim 1.

Claim 15 is rejected on grounds corresponding to the reasons given above for claim 1. The claim 1 claims limitations of the XPath evaluating method while the claim 15 claims limitations of an article of manufacture comprising computer readable program code means for causing a computer to effect the steps of claim 1.

Claims 16, and 17 are rejected on grounds corresponding to the reasons given above for claim 1. The claim 1 claims limitations of the XPath evaluating method while the claims 16, 17 claim limitations of a program storage device readable by machine to perform the steps of claim 1.

Claim 18 are rejected on grounds corresponding to the reasons given above for claim 5. The claim 5 claims limitations of the XPath evaluating apparatus while the claim 18 claims limitations of a computer program product for causing a computer to effect the XPath evaluating apparatus of claim 5.

Claim 19 are rejected on grounds corresponding to the reasons given above for claim 8. The claim 8 claims limitations of the XPath evaluating apparatus while the claim 19 claims limitations of a computer program product for causing a computer to effect the XPath evaluating apparatus of claim 8.

Claim 20 are rejected on grounds corresponding to the reasons given above for claim 10. The claim 10 claims limitations of the information processing apparatus while the claim 20 claims limitations of a computer program product for causing a computer to effect the information processing apparatus of claim 10.

Response to Argument

5. Applicants' arguments regarding the 102(a) rejection based upon Peng are not persuasive. The examiner respectfully traverses applicants' arguments.

With respect to applicants argument that Peng does not anticipate "evaluating the XPath relevant to an extensible-markup-language (XML) document", the examiner refers applicants to page 431 [1.] 2nd paragragh. Peng discloses ***evaluating XPath over streaming XML***. Therefore, "evaluating the XPath relevant to an extensible-markup-language (XML) document" is taught in Peng's reference.

With respect to applicant's argument that Peng does not anticipation of "serially inputting XML event strings constituting an XML document to be processed", the examiner respectfully disagrees. In page 433 [2.1], Peng teaches ***the XML document is processed and generate a sequence of events***. Additional, [3.1] recites ***PDA accepts the streaming XML***. Therefore, "serially inputting XML event strings constituting an XML document to be processed" is taught in Peng's reference.

With respect to applicants argument that Peng does not anticipate "serially evaluating ", "inputted XML events while subjecting the XML document to streaming processing", and "XPath is partially established with respect to a given XML event", the examiner respectfully disagrees. The examiner refers applicants to 1st paragraph of [3.] in page 433, as the explanation supra, the XML document is processed to generate a sequence of XML event strings. Fig.1 depicts XML event strings, page 432 example1: the process of evaluating the XPath query

/pub[year=2002]/book[price<11]/author for the XML event strings (fig.1). In the example each event element of XML document is evaluated along with each location step in the Xpath */pub/book/author*. The location step *pub* with predicate *[year=2002]* and *book* with predicate *[price<11]* (figure1 of example1) are fetched for evaluating. The fist book element event, the author element event will be buffered until the sub event elements evaluated. After the predicate *[price<11]* of book location step is evaluated using the second price event element of the second book event element, the Xpath is partially established. Therefore, anticipate “serially evaluating”, “inputted XML events while subjecting the XML document to streaming processing”, and “XPath is partially established with respect to a given XML event” are taught in Peng’s reference.

With respect to applicants’ argument that Peng does not anticipate “step of repeating the partial evaluation of the XPath along with the input of the XML event strings while considering the result of the partial evaluation retained in the storing means and evaluating that the XPath is established with respect to the XML document when the last part of the XPath is established”, the examiner respectfully disagrees. The examiner refers applicants to the explanation supra. Additionally, after the predicate *[price<11]* of book location step is evaluated using the second price event element of the second book event element, the Xpath is partially established. The predicate *[year=2002]* of pub location path will be evaluated using year event element to complete evaluating entire XPath. During the evaluation of the Xpath, the buffer is used to store the partial

evaluation until the entire Xpath is evaluated. Therefore, the recited limitation is taught in Peng's reference.

6. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

With respect to applicants' argument that "generating an automaton for expressing the XPath to be evaluated" because "page 432, 6th paragraph of column 1, apparently does not allude to ***generate the hierarchical pushdown automaton corresponding to an XPath query***", the examiner respectfully disagrees. "***generate the hierarchical pushdown automaton corresponding to an XPath query***" is in page 432, 6th paragraph of column 1. Therefore, "generating an automaton for expressing the XPath to be evaluated" is taught in Peng's reference.

With respect to applicants' argument that Peng does not anticipate a step of "evaluating the XPath partially by allowing transition of a state of the automaton based on inputted respective XML events and retaining a result of the partial evaluation as the state of the automaton", the examiner respectfully disagrees. page 433, 1st paragraph of [3.], Peng teaches for each input event from the input sequence (figure1 of example1) is fetched , the current state of PDT is changed and buffered the result. Therefore, the limitation is taught in Peng's reference.

With respect to applicants' argument that Peng does not anticipate a step of "generating a second stack for analyzing a nested structure of the XML document to be processed based on respective inputted XML events and then evaluating the XPath partially by comparing the first stack with the second stack", the examiner respectfully disagrees. In 1st paragraph of [3.] page 433, "a set of input symbol" (fig.1) is represent for "a nested structure of the XML document" as in claim limitation, and "the set of stack input symbols". Additionally, the example1 discloses the comparing each of events in the document to the each element in the XPath. Therefore, the limitation is taught in Peng's reference.

With respect to applicants argument regarding to claim 4 that Peng does not anticipate a step of "serially constructing a document tree indicating a document structure of the XML document to be processed based on input of respective XML events"; and "evaluating the XPath along with construction of the document tree by use of the document tree including a part which has been constructed". ***The examiner recites in the office action*** "serially constructing a document tree indicating a document structure of the XML document to be processed based on input of respective XML events (page 436, 1st paragraph of [4.], "hierarchical pushdown transducer (HPDT), in form of a binary tree"; figure11, and 1st paragraph of [4.2], build an HPDT from an XPath query); and evaluating the XPath along with construction of the document tree by use of the document tree including a part which has been constructed (figures 5-11, and example 5, page 436, 1st of [4.2])".

With respect to applicants argument regarding to claim 5 that Peng does not anticipate an element of “an evaluation executing unit”, ***the examiner recites in the office action*** “an evaluation executing unit.... (page 433, 1st of [3], “Basic Pushdown Transducer”).

With respect to applicants argument regarding to claim 6 that Peng does not anticipate an element of “an automaton generating unit”, ***the examiner recites in the office action*** “an automaton generating unit (page 433, 1st of [3.], “pushdown transducer”).

With respect to applicants argument regarding to claim 7 that Peng does not anticipate an element of “a stack generating unit being embodied in a tangible computer readable medium, and employed for generating a first stack which expresses the XPath to be evaluated with a string of stack elements”, and “the evaluation executing unit performs partial evaluation of the XPath by generating a second stack for analyzing a nested structure of the XML document subject to processing based on the XML events transferred from the XML event transferring unit and then comparing the first stack generated by the stack generating unit with the second stack”. ***The examiner recites in the office action*** “a stack generating unit being embodied in a tangible computer readable medium, and employed for generating a first stack which expresses the XPath to be evaluated with a string of stack elements (page 433, 1st paragraph of [3.], “a set of stack symbols”), wherein the evaluation executing unit performs partial evaluation of the XPath by generating a second stack for analyzing a nested structure of the XML document subject to processing based on the XML events

transferred from the XML event transferring unit and then comparing the first stack generated by the stack generating unit with the second stack (page 433, 1st paragraph of [3.], [3.1])."

With respect to applicants argument regarding to claim 8 that Peng does not anticipate "a document tree constructing unit being embodied in a tangible computer readable medium, and employed for inputting XML event strings which constitute an XML document and serially constructing a document tree indicating a document structure of the XML document based on inputted XML events along with the input of the respective XML events while subjecting the XML document to streaming processing; an XML event transferring unit being embodied in a tangible computer readable medium, and employed for inputting the XML event strings which constitute the XML document to be processed and serially transferring the XML event strings to the document tree constructing unit. ***The examiner recites in the office action*** "a document tree constructing unit being embodied in a tangible computer readable medium, and employed for inputting XML event strings which constitute an XML document and serially constructing a document tree indicating a document structure of the XML document based on inputted XML events along with the input of the respective XML events while subjecting the XML document to streaming processing (page 434, [3.2], "building the BPDT" with figure 5-9); an XML event transferring unit being embodied in a tangible computer readable medium, and employed for inputting the XML event strings which constitute the XML document to be processed and serially

transferring the XML event strings to the document tree constructing unit (page 433, [2.1], "SAX parser")".

With respect to applicants argument regarding to claim 9 that Peng does not anticipate an element of "wherein the evaluation executing unit retains information concerning a result of partial evaluation of the XPath when the XPath is partially established upon the evaluation of the XPath using the document tree", ***the examiner recites in the office action*** "wherein the evaluation executing unit retains information concerning a result of partial evaluation of the XPath when the XPath is partially established upon the evaluation of the XPath using the document tree (page 434, [3.3], "Buffer operation in BPDT")".

With respect to applicants argument regarding to claim 10 that Peng does not anticipate "the XPath evaluating unit serially evaluates the XPath with respect to each of the XML events, retains information concerning a result of partial evaluation of the XPath when the XPath is partially established with respect to a given XML event, and judges that the XPath is established with respect to the XML document when the last step of the XPath is established", ***the examiner recites in the office action*** "the XPath evaluating unit serially evaluates the XPath with respect to each of the XML events, retains information concerning a result of partial evaluation of the XPath when the XPath is partially established with respect to a given XML event, and judges that the XPath is established with respect to the XML document when the last step of the XPath is established (page 433, 1st of [3], "Basic Pushdown Transducer")".

With respect to applicants argument regarding to claim 11 that Peng does not anticipate “the XPath evaluating unit generates an automaton for expressing the XPath to be evaluated, performs partial evaluation of the XPath by allowing transition of a state of the automaton based on the XML events generated by the XML parser, and retains a result of the partial evaluation as the state of the automaton”, ***the examiner recites in the office action*** “the XPath evaluating unit generates an automaton for expressing the XPath to be evaluated, performs partial evaluation of the XPath by allowing transition of a state of the automaton based on the XML events generated by the XML parser, and retains a result of the partial evaluation as the state of the automaton (example 1 and last paragraph of page 432, when author element in input stream is encountered, XPath is evaluated, and it satisfied the path /pub/book/author. However, book element, author elements are buffered to wait for later input stream events process)”.

With respect to applicants argument regarding to claim 12 that Peng does not anticipate “the XPath evaluating unit serially constructs a document tree indicating a document structure of the XML document to be processed based on inputted XML events along with the input of the respective XML events generated by the XML parser, and evaluates the XPath by use of the document tree with a part which has been constructed”. The examiner respectfully disagrees. ***This limitation is not recited in claim 12.***

With respect to applicants argument regarding to claim 13 that Peng does not anticipate “the XPath evaluating unit serially constructs a document tree

indicating a document structure of the XML document to be processed based on inputted XML events along with the input of the respective XML events generated by the XML parser, and evaluates the XPath by use of the document tree with a part which has been constructed”, ***the examiner recites in the office action*** “wherein the XPath evaluating unit serially constructs a document tree indicating a document structure of the XML document to be processed based on inputted XML events along with the input of the respective XML events generated by the XML parser, and evaluates the XPath by use of the document tree with a part which has been constructed (page 436, 1st paragraph of [4.], “hierarchical pushdown transducer (HPDT), in form of a binary tree”; figure11, and 1st paragraph of [4.2], build an HPDT from an XPath query)”.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu-Nguyet Le whose telephone number is 571-270-1093. The examiner can normally be reached on 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on 571-272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TL

Thu-Nguyet Le
06 December 2007

KBP


SHAHID ALAM
PRIMARY EXAMINER